

CERES Requirements Log - TISA Averaging

Reqm'ts No.	Requirement	SCCR	Provider	Responsible Subsystem	Responsible Person	How was it conveyed?	When was it received?	When was it accepted?	When was it completed?	Current Status
10-1	SCIENCE: Prepare averaging software for Edition2D SRBAVG	583	Bruce Wielicki, Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Team mtgs	09/01/04	09/16/04		In pre-delivery verification testing
10-2	SCIENCE: Add new PGE, CER10.2P1, to create a month of the daily regional snow and ice maps	583	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Team mtgs	05/01/05	05/01/05	05/27/05	Implementation and verification testing completed, but the ST may decide PGE is not necessary
10-3	SCIENCE: Add new PGE, CER10.3P1, to create a month of the daily regional ozone maps	583	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Team mtgs	05/01/05	05/01/05	05/27/05	Implementation and verification testing completed, but the ST may decide PGE is not necessary
10-4	SCIENCE: Add phase one before creating SRBAVGs to compute the monthly hourly average of the non-GGEO clear-sky albedos and SW fluxes. Add a new PGE, CER10.P2 to create the above data plus the monthly snow	583	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Team mtgs	05/01/05	05/01/05	08/17/07	In pre-delivery verification testing
10-5	SCIENCE: Add phase two before creating SRBAVGs to create the clear-sky map	583	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Team mtgs	05/01/05	05/01/05	05/13/05	In pre-delivery verification testing
10-6	SCIENCE: Modify phase three to create the SRBAVG using the output from phases one and two.	583	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Team mtgs	05/01/05	05/01/05	05/17/05	In pre-delivery verification testing
10-7	SCIENCE: Update the GGEO algorithm to incorporate the latest GGEO method	583	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Team mtgs	05/01/05	05/01/05	09/02/05	In pre-delivery verification testing
10-8	SCIENCE: Run four seasonal months to validate the interpolated surface flux and the monthly average of TOA fluxes	583	Dave Doelling and Dave Rutan	TISA Averaging Subsystem 10	Cathy Nguyen	Team mtgs	09/12/05	09/13/05	09/14/05	In pre-delivery verification testing
10-9	SCIENCE: Run four seasonal months of Terra and Aqua and TRMM and output the interpolated TOA and surface fluxes for validation	583	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Team mtgs	09/13/05	09/13/05	09/15/05	In pre-delivery verification testing
10-10	SCIENCE: Run three years of cross-track Terra SRBAVGs for validation	583	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Team mtgs	09/13/05	09/16/05	09/19/05	In pre-delivery verification testing
7.1-1	SCIENCE: Prepare synoptic interpolation software to process Terra Beta TSI data		Dave Doelling	TISA Averaging Subsystem 7.1	Cathy Nguyen	Team mtgs	09/12/05	09/12/05	09/20/05	Complete
10-11	SCIENCE: Correct errors in the GGEO interpolation to validate ValR7 SRBAVGs	608	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Phone calls and emails	10/11/05	10/11/05	10/11/05	Delivered to CM

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10-12	SCIENCE: Correct GGEO SW fluxes and clear-sky net surface fluxes	608	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Emails and meetings	01/05/06	01/05/06	01/07/06	Delivered to CM
10-13	SCIENCE: Add the linear interpolation for the relative humidity in the case of missing partial PMOA data	608	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Meetings	11/03/05	11/03/05	12/20/05	Delivered to CM
10-14	SCIENCE: Correct the conversion of four cloud categories to two cloud categories for the IR emissivities, optical depth, cloud	608	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Meetings	11/08/05	11/08/05	11/09/05	Delivered to CM
10-15	SCIENCE: Correct the weights in the zonal and global averages	608	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Phone calls and emails	11/09/05	11/09/05	11/11/05	Delivered to CM
10-16	NON-SCIENCE: Correct the label name for the surface fluxes and the attributes of the HDF SRBAVGs	608	Ed Kizer, Erika Geier	TISA Averaging Subsystem 10	Cathy Nguyen	Emails	12/27/05	12/27/05	12/28/05	Delivered to CM
10-17	SCIENCE: Create SRBAVG4 for the GGEO daily means		Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Emails and phone calls	01/31/06	01/31/06	02/25/06	In pre-delivery verification testing
10-18	SCIENCE: Create SRBAVG5 for the CERES daily means. Add the snow/ice and solar incoming flux parameters		Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Emails and phone calls	01/31/06	01/31/06	02/25/06	In pre-delivery verification testing
10-19	SCIENCE: Create SRB+B16AVG6 for the GGEO cloud and SRBAVG7 for CERES cloud in ISCCP format		Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Emails and phone calls	01/31/06	01/31/06	03/09/06	In pre-delivery verification testing
10-20	SCIENCE: Search for the cause of the "inf" in the surface fluxes		Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Emails and phone calls	02/13/06	02/13/06	02/14/06	In pre-delivery verification testing
7.1-2	SCIENCE: Update the cloud interpolation subroutine to correct cloud parameters		Dave Doelling, Fred Rose	TISA Averaging Subsystem 7.1	Cathy Nguyen	Emails and phone calls	03/13/06	03/15/06	03/22/06	In pre-delivery verification testing
7.1-3	SCIENCE: Update the TOA flux interpolation code		Dave Doelling, Fred Rose	TISA Averaging Subsystem 7.1	Cathy Nguyen	Phone calls and meetings	03/13/06	03/15/06	03/22/06	In pre-delivery verification testing
10-21	Non-SCIENCE: Create a new PGE to product SRBAVG4/5/6/7 and the to include the 10-minutes snow/ice maps for inputs to SRBAVG5 snow/ice parameter		Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Emails and phone calls	02/13/06	02/13/06	02/20/06	In pre-delivery verification testing
10-22	SCIENCE: Create a non-public HDF file for night time MODIS cloud		Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Meeting	04/20/06	04/24/06	04/27/06	In pre-delivery verification testing

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10-23	SCIENCE: Run Aqua SRBAVGs from March 2003 through May 2004 with the use of Beta6 GGEOS		Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Phone calls	04/24/06	04/24/06	04/26/06	Complete
7.1-4	SCIENCE: Update code to change the time of the data to GMT from hour one to last hour of the month		Dave Doelling, Fred Rose	TISA Averaging Subsystem 7.1	Cathy Nguyen	Phone calls and meetings	04/10/06	04/14/06	04/21/06	In validation
10-23	SCIENCE: Add the number of days for the 8 GMT blocks in the MODIS D2 ISCCP-like data		Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Meeting	04/26/06	04/26/06	04/27/06	Complete
10-24	SCIENCE: Add the daily and the monthly hourly number of observations for non-GEO and GEO TOA fluxes		Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Meeting	05/02/06	05/05/06	05/11/06	Complete
10-25	SCIENCE: Add the daily twilight correction to adjust the daily TOA SW fluxes		Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Meeting	05/08/06	05/09/06	05/17/06	Complete
10-26	SCIENCE: Deliver code to support the Beta version of SRBAVG4-7	624	Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Email and meeting	06/09/06	06/12/06	06/13/06	Complete
8-01	SCIENCE: Validate the synoptic average TOA fluxes		Dave Doelling	TISA Averaging Subsystem 8	Cathy Nguyen	Meeting	6/14/06	06/14/06	in progress	In validation
10-27	SCIENCE: Update code to include the defaults in the clear-sky map for regions without data for 200503 SRBAVG DAAC	629	Lisa Link	TISA Averaging Subsystem 10	Cathy Nguyen	Email	06/19/06	06/19/06	06/20/06	Complete
7.1-5	SCIENCE: Update code to use the local and GMT cosine solar zenith angle tables for SW flux analysis.		Dave Doelling	TISA Averaging Subsystem 7.1	Cathy Nguyen	Phone calls and meetings	04/20/06	04/20/06	04/22/06	Complete
7.1-6	SCIENCE: Update SW normalization code to use the local time clear-sky map to work in GMT time		Dave Doelling	TISA Averaging Subsystem 7.1	Cathy Nguyen	Meetings	03/13/06	03/15/06	03/22/06	Complete
7.1-7	SCIENCE: Correct flux flags for nongeo, geo and interpolated data		Fred Rose	TISA Averaging Subsystem 7.1	Cathy Nguyen	Meetings	03/27/06	03/27/06	03/29/06	Complete
7.1-8	SCIENCE: Add the filling up SW fluxes and albedos for the days without data		Dave Doelling	TISA Averaging Subsystem 7.1	Cathy Nguyen	Meetings	03/13/06	03/15/06	03/22/06	Complete
7.1-9	SCIENCE: Remove unused parameters		Dave Doelling, Fred Rose	TISA Averaging Subsystem 7.1	Cathy Nguyen	Email	04/04/06	04/04/06	04/05/06	Complete

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7.1-10	SCIENCE: Add parameters such as aerosol from FSW and IR radiance from GEO		Dave Doelling. Fred Rose	TISA Averaging Subsystem 7.1	Cathy Nguyen	Email and meeting	03/31/06	04/05/06	04/06/06	Complete
7.1-11	Non-SCIENCE: Change TSI from non-nested grid to nested grid to save disk space		Fred Rose	TISA Averaging Subsystem 7.1	Cathy Nguyen	Phone calls and emails	02/27/06	03/15/06	04/03/06	Complete
10-28	SCIENCE: Beta1 Daily SRBAVGs were produced at the DAAC for further validation. Found NaN in surface net flux mod. A and also in the cloud top and bottom pressures. Search for the cause of the NaN.		Dennis Keyes, Dave Doelling	TISA Averaging Subsystem 10	Cathy Nguyen	Email and meeting	07/05/06	07/05/06	in progress	In validation